

## MATERIAL SAFETY DATA SHEET (MSDS)

## MERCUROUS CHLORIDE LR (CALOMEL)

### 1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : MERCUROUS CHLORIDE LR (CALOMEL)

**Product code** : M0134700500 Identification of the product : Dimercury dichloride

CAS No: 10112-91-1 EC No :233-307-5 Annex No:080-003-00-1

1.2. Relevant identified uses of the substance or mixture and uses advised against

: Industrial. For professional use only. Use

1.3. Details of the supplier of the safety data sheet

**SUVCHEM** Company identification Chaitanya Tower, 2nd Floor, Office # 206,

Siddharth Nagar, S.V. Road,

Goregaon (West), Mumbai - 400062,

Maharashtra, India.

Contact: +91 22 28725393 / 94 / 95

Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

: + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ] Phone no.

#### **Hazards identification -DSD**

#### 2.1. Classification of the substance or mixture

### Classification EC 67/548 or EC 1999/45

Classification : Xn; R22

> Xi: R36/37/38 N; R50-53

### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

**Health hazards** : Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -

Category 3 - Warning (CLP: STOT SE 3) H335

Skin irritation - Category 2 - Warning (CLP: Skin Corr. 2) H315 Eye irritation - Category 2A - Warning (CLP: Eye Irrit. 2) H319 Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

**Environmental hazards** : Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP

: Aquatic Acute 1) H400

Hazardous to the aquatic environment - Chronic hazard - Category 1 - Warning (



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## 2. Hazards identification -DSD (continued)

CLP: Aquatic Chronic 1) H410

#### 2.2. Label elements

## Labelling EC 67/548 or EC 1999/45

Symbol(s)





Symbol(s) : Xn : Harmful

N : Dangerous for the environment

R Phrase(s) : R22 : Harmful if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

**S Phrase(s)** : S2 : Keep out of the reach of children.

S13: Keep away from food, drink and animal feedingstuffs.

S24/25: Avoid contact with skin and eyes.

S46: If swallowed seek medical advice immediately and show this container or

label.

S60: This material and its container must be disposed of as hazardous waste. S61: Avoid release to the environment. Refer to special instructions/Safety data

sheets.

Contains : Dimercury dichloride

#### Labelling Regulation EC 1272/2008 (CLP)

**Hazard pictograms** 





Signal words : Warning

**Hazard statements** : H302 : Harmful if swallowed.

H319 : Causes serious eye irritation. H315 : Causes skin irritation.

H335: May cause respiratory irritation.

H410: Very toxic to aquatic life with long lasting effects.

**Precautionary statements** 

• General : P102: Keep out of reach of children.

P103: Read label before use.

P101: If medical advice is needed, have product container or label at hand.

• **Prevention** : P280: Wear protective gloves, protective clothing, eye protection, face protection.

P271: Use only outdoors or in a well-ventilated area. P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P273: Avoid release to the environment.



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## 2. Hazards identification -DSD (continued)

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

 Response : P302+P352: IF ON SKIN : Wash with plenty of soap and water.

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel

unwell.

P332+P313: If skin irritation occurs: Get medical advice.

P391: Collect spillage.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340: IF INHALED: Remove to fresh air and keep at rest in a position

comfortable for breathing.

P363: Wash contaminated clothing before reuse.

: P403+P233: Store in well-ventilated place. Keep container tightly closed. Storage

P405: Store locked up.

 Disposal considerations : P501: Dispose of this material and its container to hazardous or special waste

collection point, in accordance with local, regional, national and/or international

regulation.

**Contains** : Dimercury dichloride

2.3. Other hazards

: The substance does not fulfil the criteria to be identified as PBT substance or vPvB Other hazards

substance according to Annex XIII of Regulation REACH.

### Composition/information on ingredients

: Dimercury dichloride **Substance / Preparation** 

> EC No: 233-307-5 Annex No :080-003-00-1

Substance.

Substance name Contents CAS No EC No Annex No REACH Ref. Classification **Dimercury dichloride** 100 % 10112-91-1 233-307-5 080-003-00-1 Xn: R22 Xi: R36/37/38 N; R50-53

Acute Tox. 4 (oral) \_ H302 Eye irrit 2 \_ H319 Skin Irrit. 2 \_ H315 STOT SE 3 \_ H335 Aquatic Acute 1 \_ H400 Aquatic Chronic 1 \_ H410

Contains no other components or impurities which will influence the classification of the product.

#### 4. First aid measures

## 4.1. Description of first aid measures

: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a Inhalation

POISON CENTER or doctor if you feel unwell.



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## 4. First aid measures (continued)

Skin contact : Wash contaminated clothing before reuse. Wash with plenty of soap and water. If

skin irritation occurs: Get medical advice. Specific treatment (see on this label).

**Eye contact** : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse

cautiously with water for several minutes. If eye irritation persists : Get medical

advice.

Ingestion : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting. Call a

POISON CENTER or doctor if you feel unwell.

## 4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use : Swallowing a small quantity of this material will result in serious health hazard.

Causes serious eye irritation.

Causes skin irritation. May cause respiratory irritation.

### 4.3. Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek

medical advice (show the label where possible).

### 5. Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media** : Do not use a heavy water stream.

**Surrounding fires** : Use water spray or fog for cooling exposed containers.

### 5.2. Special hazards arising from the substance or mixture

**Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

**Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory

protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to

enter environment.

### 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**For emergency responders** : Equip cleanup crew with proper protection.

Ventilate area.



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## 6. Accidental release measures (continued)

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

**Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters

sewers or public waters.

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust.

Store away from other materials.

#### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

### 7. Handling and storage

### 7.1. Precautions for safe handling

**Handling**: Wash thoroughly after handling. Use only outdoors or in a well-ventilated area.

Wash thoroughly after handling. Do not eat, drink or smoke when using this

product.

**Technical protective measures** 

: Provide good ventilation in process area to prevent formation of vapour.

**Special precautions** 

: Avoid breathing dust, fume, gas, mist, vapours, spray.

## 7.2. Conditions for safe storage, including any incompatibilities

**Storage** : Keep only in the original container in a cool, well ventilated place. Keep container

tightly closed.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s) : None.

#### 8. Exposure controls/personal protection

#### 8.1. Exposure controls

**Personal protection** : Avoid all unnecessary exposure.

• Respiratory protection : Wear approved mask.



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## 8. Exposure controls/personal protection (continued)

• Hand protection : Wear protective gloves.

Skin protection
 Eye protection
 Chemical goggles or safety glasses.
 Others
 Wear suitable protective clothing.
 Chemical goggles or safety glasses.
 When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

#### 9. Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Solid.

**Colour** : White crystalline

Odour : Odorless

Odour threshold : No data available.

pH value : Not applicable.

: 277 °C Melting point [°C] : N/A **Decomposition point [°C]** : N/A Critical temperature [°C] : N/A Auto-ignition temperature [°C] : N/A Flammability (solid, gas) : N/A Flash point [°C] : 302 °C Boiling point [°C] Initial boiling point [°C] : N/A

Final boiling point [°C] : N/A
Evaporation rate : N/A
Vapour pressure [20°C] : N/A

Vapour pressure mm/Hg : 1.7 mm Hg at 236 °C

Vapour density : N/A

Density [g/cm3] : 5,44

Relative density, gas (air=1) : N/A

Relative density, liquid (water=1) : N/A

Solubility in water [% weight] : Negligible

Solubility in water : N/A

**Log Pow octanol / water at 20°C** : No data available.

Solubility : N/A Viscosity at 40°C [mm2/s] : N/A



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## 9. Physical and chemical properties (continued)

#### 9.2. Other information

Explosive properties : N/A
Explosion limits - upper [%] : N/A
Explosion limits - lower [%] : N/A

Oxidising properties : No data available.

## 10. Stability and reactivity

### 10.1. Reactivity

**Reactivity** : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions** : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

## 10.6. Hazardous decomposition products

**Hazardous decomposition products**: Fumes. Carbon monoxide. Carbon dioxide.

## 11. Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity

Inhalation
 Based on available data, the classification criteria are not met.
 Dermal
 Based on available data, the classification criteria are not met.

• Ingestion : Harmful if swallowed.

**Corrosion** : Based on available data, the classification criteria are not met.



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## 11. Toxicological information (continued)

**Irritation** : Causes serious eye irritation.

Causes skin irritation.

May cause respiratory irritation.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : Based on available data, the classification criteria are not met.

Aspiration hazard : Based on available data, the classification criteria are not met.

### 12. Ecological information

#### 12.1. Toxicity

**Toxicity information** : Very toxic to aquatic life with long lasting effects.

12.2. Persistence - degradability

Persistence - degradability : May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

#### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

**Environmental precautions** : Avoid release to the environment.

#### 13. Disposal considerations

#### 13.1. Waste treatment methods



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## 13. Disposal considerations (continued)

General

: Avoid release to the environment. Dispose in a safe manner in accordance with

local/national regulations.

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## 14. Transport information

## 14.1. Land transport (ADR-RID)

Proper shipping name : MERCURY COMPOUND, SOLID, N.O.S.

UN N° : 2025 H.I. nr : 60 ADR - Class : 6.1

**Labelling - Transport** : 6.1 : Toxic substances.



ADR - Classification code : T5
ADR - Group : III

ADR - Packing instructions : P002 R001 LP002

ADR - Limited Quantity : 5 KG

**ADR - Tunnel code** : E : Passage forbidden through tunnels of category E.



### 14.2. Sea transport (IMDG) [English only]

Proper shipping name : MERCURY COMPOUND, SOLID, N.O.S.

UN N° : 2025

**IMO-IMDG - Class or division** : 6.1 : Toxic substances.

IMO-IMDG - Packing group : III

IMO- IMDG - Packing instructions : P002 LP02
IMO-IMDG - Limited quantities : 500 g
IMO-IMDG - Marine pollution : Yes
EMS-Nr : F-A S-A

### 14.3. Air transport (ICAO-IATA) [English only]



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## 14. Transport information (continued)

Proper shipping name : MERCURY COMPOUND, SOLID, N.O.S.

UN N° : 2025

IATA - Class or division : 6.1 : Toxic substances.

IATA - Packing group : III

IATA - Passenger and Cargo Aircraft : ALLOWED - Passenger and Cargo - Packing : 670

instruction

- Passenger and Cargo - Maximum : 100 kg

Quantity/Packing

- Cargo only - Packing instruction : 677
- Cargo only - Maximum Quantity/ : 200 kg

**Packing** 

IATA - Limited Quantites : 10 kg ERG-Nr : 6L

### 15. Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Safety, health and environmental regulations/legislation specific for the

or the

: Ensure all national/local regulations are observed.

substance or mixture

REACH Restrictions - Annex XVII
REACH Authorisation - Annex XIV

: The components of this product are not subject to restrictions.: The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.

#### 16. Other information

Revision - See : \*

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

Sources of key data used : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF

THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and

1999/45/EC, and amending Regulation (EC) No 1907/2006

List of relevant R phrases (heading 3): R22: Harmful if swallowed.

R36/37/38: Irritating to eyes, respiratory system and skin.

R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.



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## MERCUROUS CHLORIDE LR (CALOMEL)

In accordance with REACH Regulation (CE) No 1907/2006 and with CLP Regulation (CE) No 1272/2008

## **DISCLAIMER:**

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- SUVCHEM shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

**End of document**